SM6-36

English

distribution HTA

adaptation instructions

replacing a down stream earthing switch

Schneider Electric

symbols and conventions

Caution:
you will find all the symbols below throughout the document, indicating the hazard levels depending on the different types of situation.

as per iso 3864–2

DANGER : failure to follow this instruction will result in death or serious injury.

as per iso 3864–2

WARNING: failure to follow this instruction may result in death or serious injury.

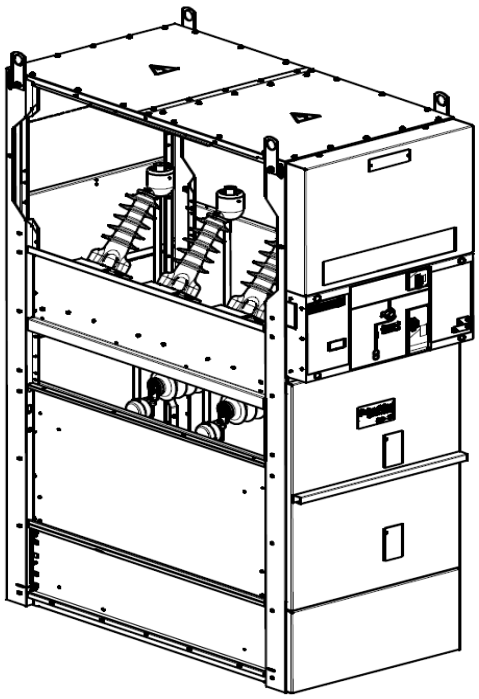
as per iso 3864–2

CAUTION: failure to follow this instruction may result in injuries.
This alert signal can also be used to indicate practices that could damage the SM6 unit.

INFORMATION- ADVICE
We draw your attention to this specific point.

contact the Schneider Electric service unit for diagnosis and advice

Call your sales representative who will put you in contact with the closest SCHNEIDER ELECTRIC group service centre.
You can log on to:
www.schneider−electric.com



distribution rules

CAUTION

The aim of this publication is to enable the SM6 unit to be installed correctly.

CAUTION

This document is not a commercial document.It is a strictly technical document drawn up by Schneider Electric.

safety rules

CAUTION

All the operations described below must be performed in compliance with applicable safety standards, under the responsibility of a competent authority.

CAUTION

Only undertake the work after having read and understood all the explanations given in this document.If you have any difficulty complying with these rules, please contact Schneider Electric.

WARNING

The contractor must be certified and authorised to manipulate and perform work on the SM6 unit.

distribution rules

This document is not a commercial document, but rather a document for strict usage inside Schneider Electric.

The purpose of this publication is to allow replacement or adaptation of assemblies.

The spare parts identified in this document are not sold separately but are part of the marketed kit.

Total or partial reproduction of this manual is forbidden, and only Schneider Electric operating personnel have the exclusive right of use.

safety rules

The connection compartment of the cubicle where the operation will be performed will be de−energised and the earthing switch placed in the earthing position.

specific tools

1 torque wrench from 0.5 to 50 Nm

preparation

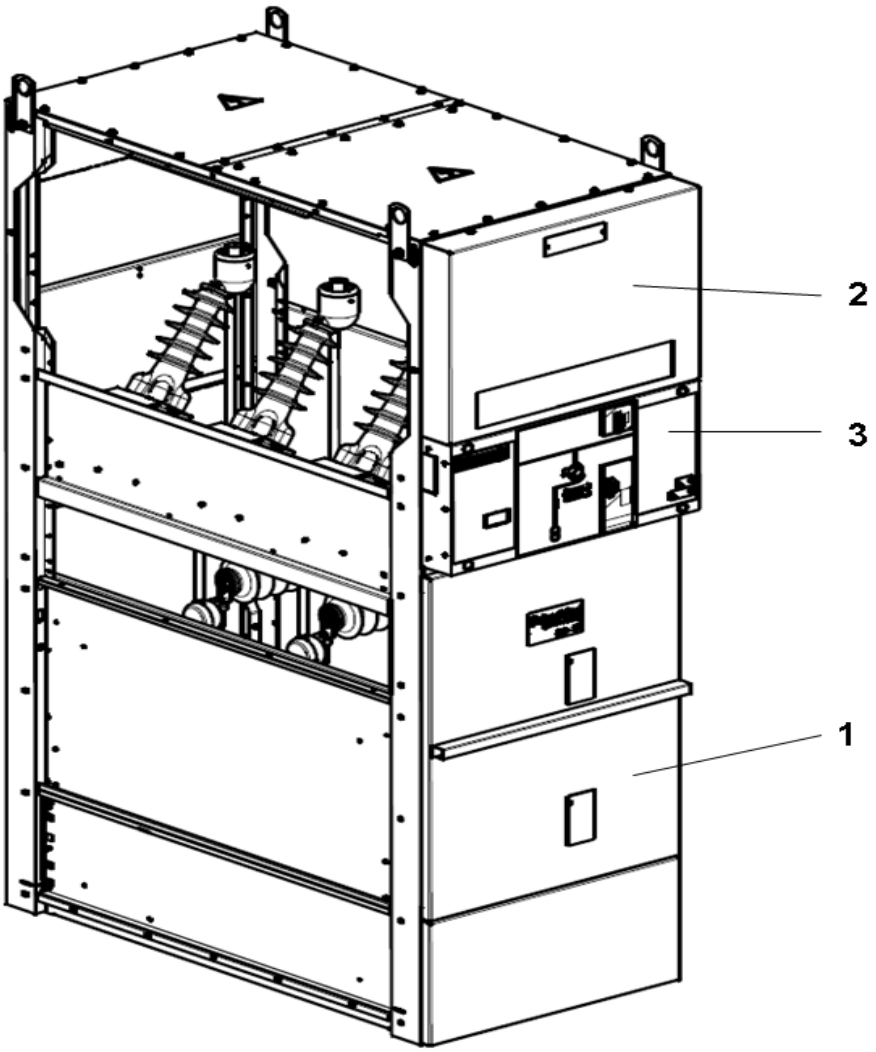
The operations enabling access to the earthing switch and reassembly of the cubicle are described in the user manual.

area of application

GAM cubicle

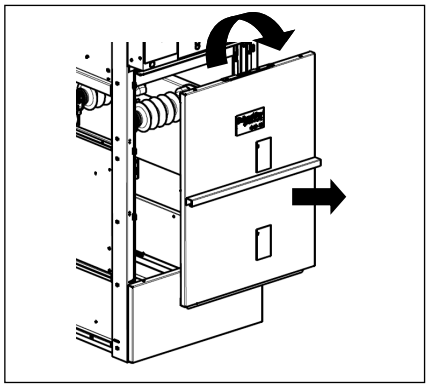
accessing the subassembly

1 : front panel
2 : control compartment
3 : monitoring compartment

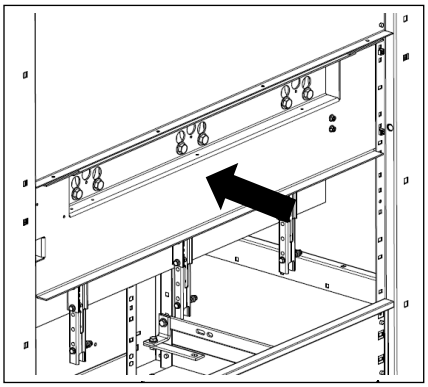


replacing the moving contacts

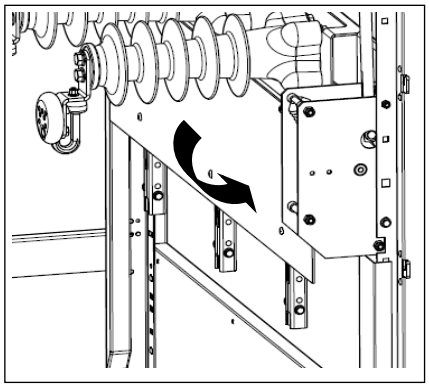
If the GAM cubicle is in the middle of a switchboard, it must be uncoupled.



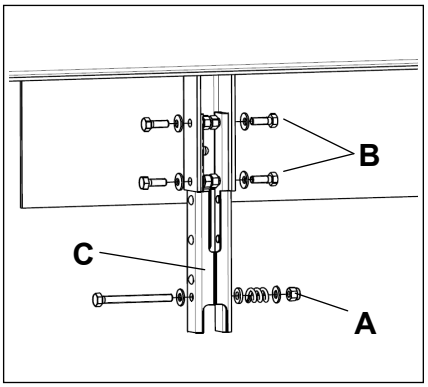
Close the earthing switch and remove the front panel...



... to access the earthing switch (behind the insulator beam).



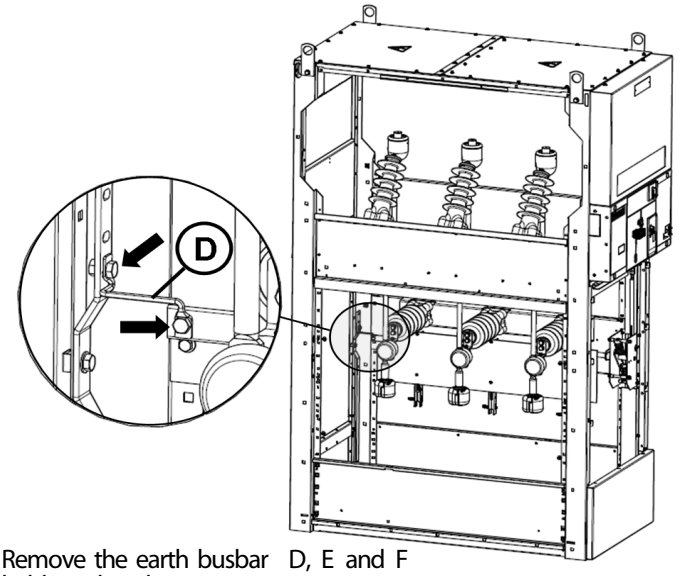
Open the earthing switch.



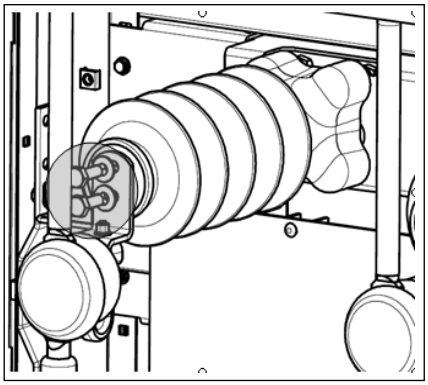
Remove the M6 nut A, the 2 x M6 screws B and the moving contacts C.

To reassemble the moving contacts, proceed in the opposite order to the disassembly process.

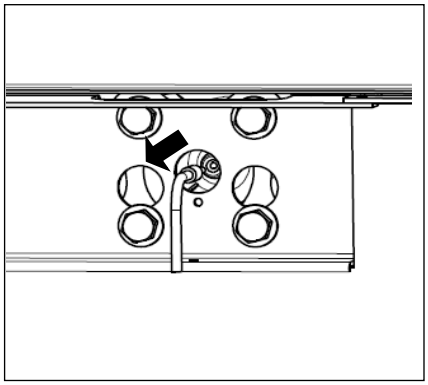
replacing an insulator – capacitor



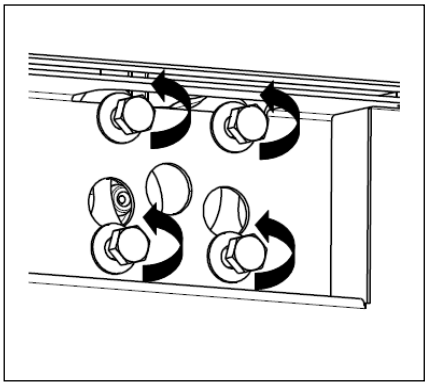
Remove the earth busbar D, E and F held in place by 1 screw and M6 nut.



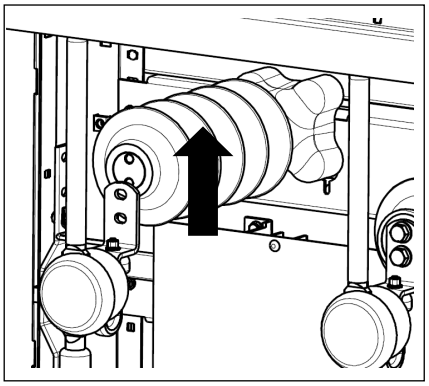
Remove the 2 M10 insulator screws .



Remove the voltage presence plug of the insulator requiring replacement.



Remove the 4 M12 insulator screws

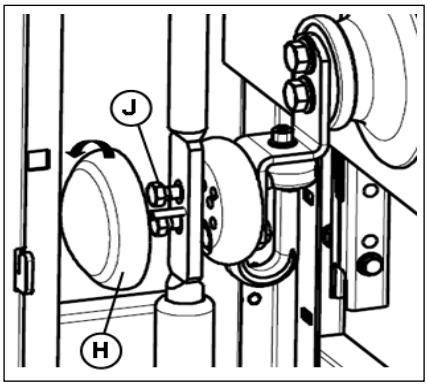


Remove the insulator.

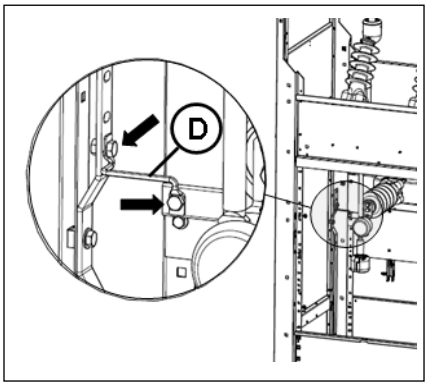
To reassemble the insulator, proceed in the opposite order to disassembly.

replacing the earthing switch

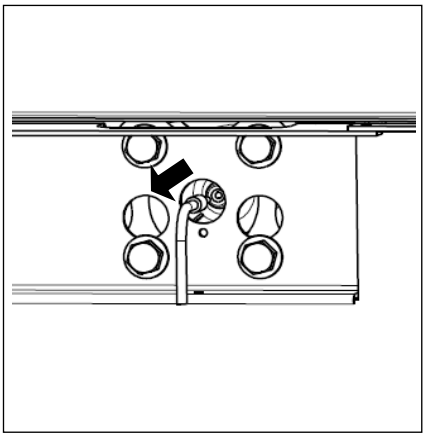
disassembling



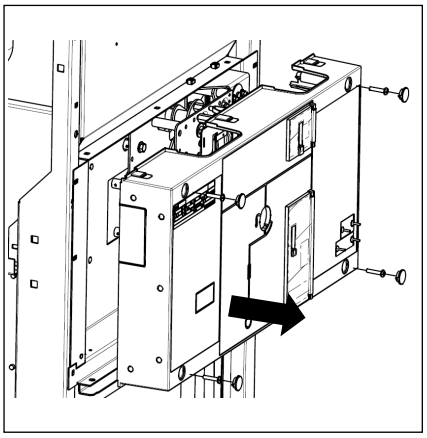
Remove the field distributer H and unscrew the 2 M12 screw on the front of the insulator.



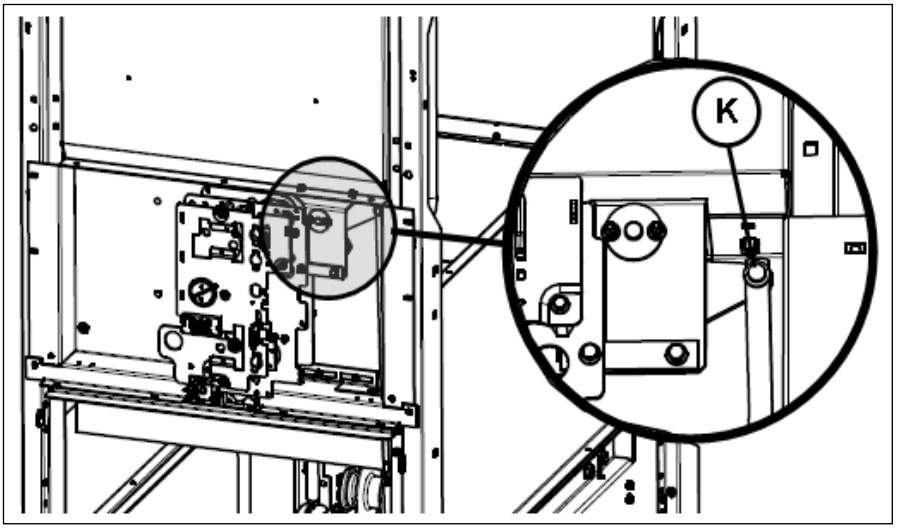
Unscrew the braiding E from the earthing switch held in place by 1 screw and 1 M8 nut.



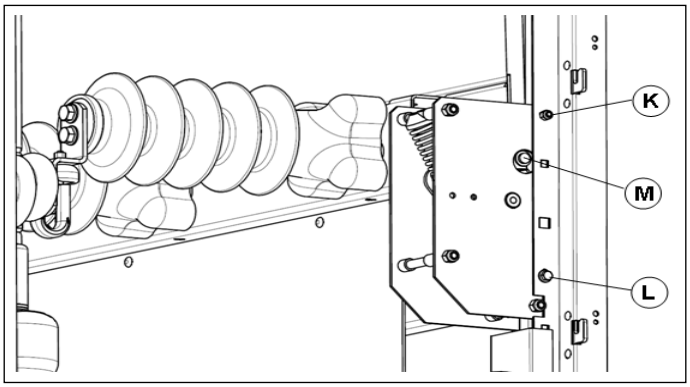
Remove the voltage presence plug of the insulator requiring replacement.



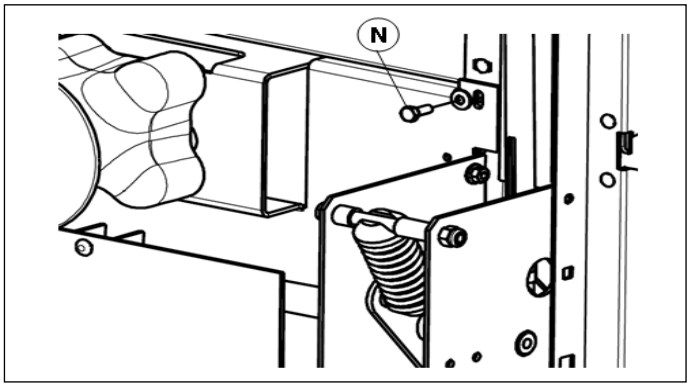
Remove the control cover.



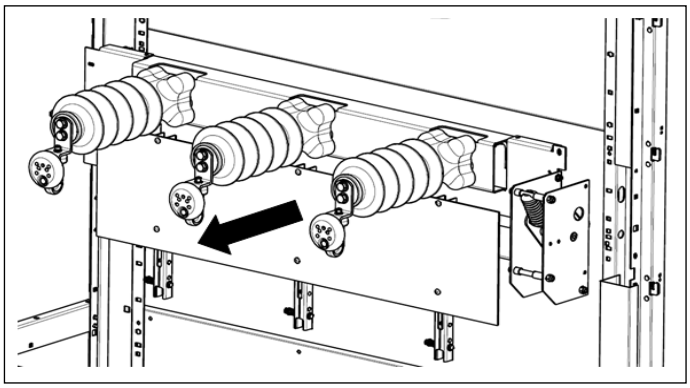
Remove hoop K .



Unscrew the connecting rod and remove it from pin M.
Then remove the 2 M6 screws K and L on the front side of earthing switch mechanism.



Remove the 4 M6 screws N holding the earthing switch in place.



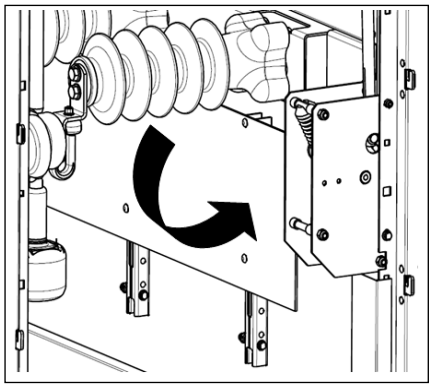
Remove the earthing switch.

reassembling the earthing switch

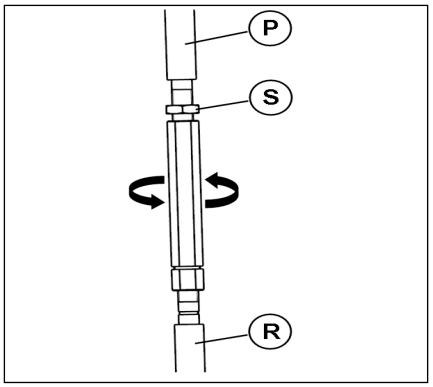
To reassemble the new earthing switch, proceed in the opposite order to the disassembly process.

adjusting the moving contacts

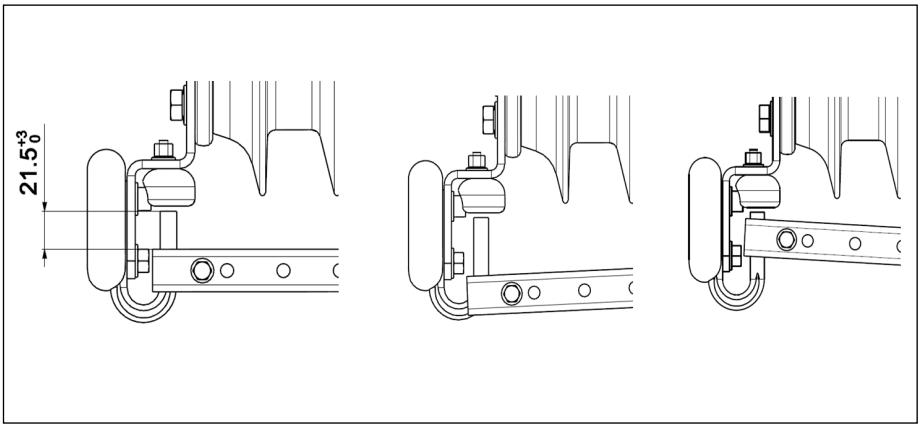
The earthing switch is adjusted in the open position.



Place the contact holder shaft up against the rack (without clearance).



Shorten by 1/2 a turn the connecting rod P using adjusting screw S. Then after adjustment lock the 2 nuts R in place.



right adjustment wrong adjustment wrong adjustment

– In the closed position check that clearance after closing is respected.
– If necessary re-adjust the length of connecting rod R.

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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.

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